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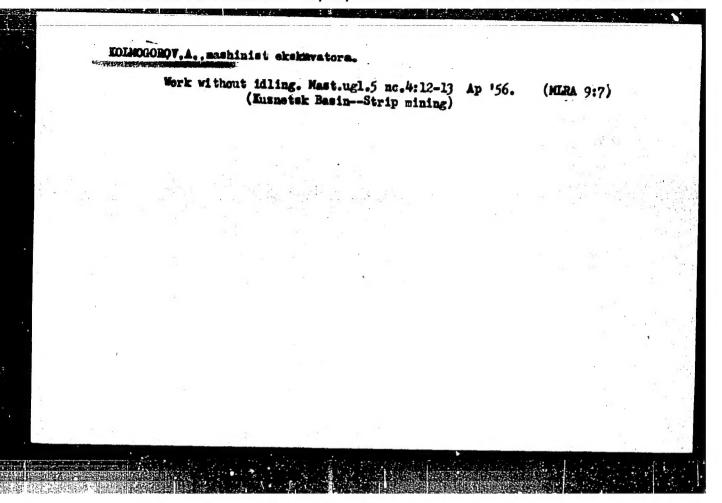
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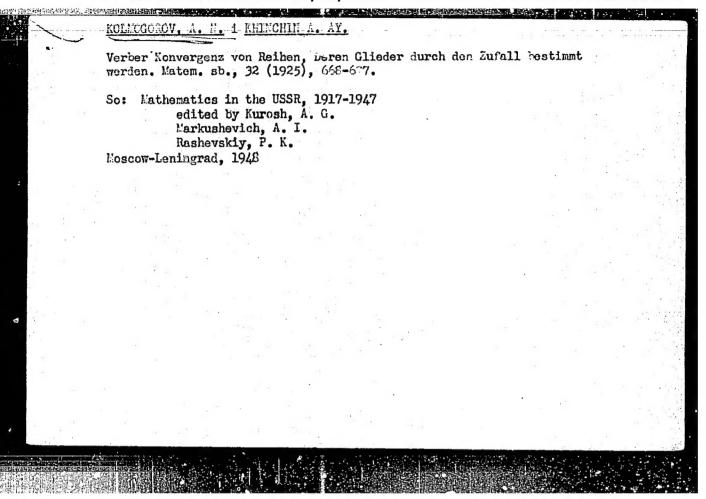
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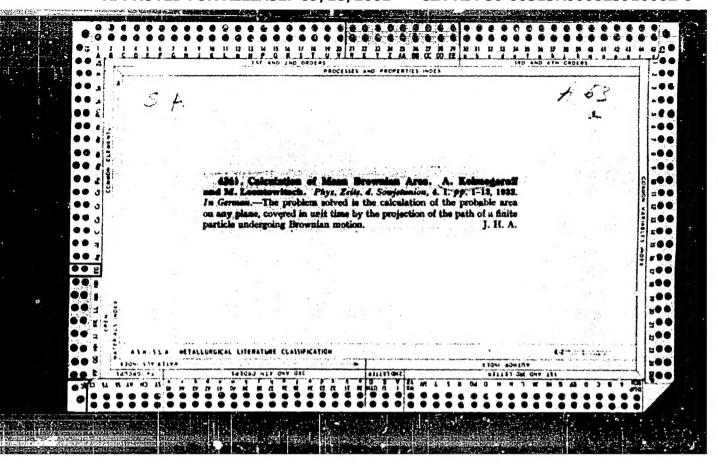
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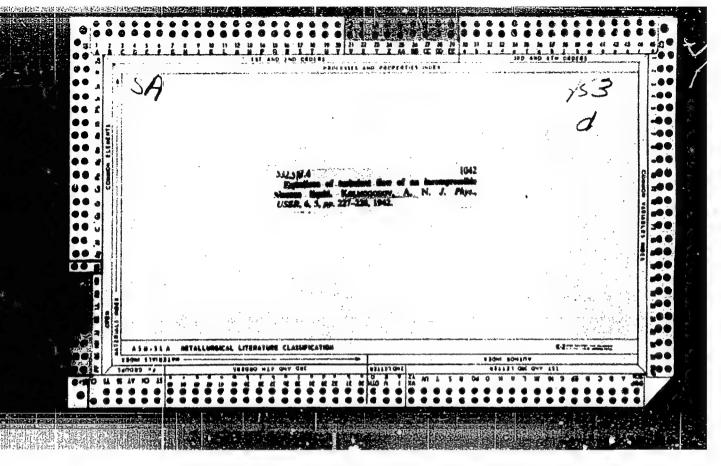
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that the Gatisan error law seriously oversitimates the cliability of the results derived from small samples and rive their main results by a cumbersome set of calcumpants ratues than by the lucid methods of vector algebra. The paper is written to show how this condition can be corrected.

wester methods are illustrated as follows by the constants. We make N experimental observe the y and v's, thus retermining a set of $n \in I$ westers in Euclidean N-space, with components $n_n \in I$ we suppose that the rank of the matrix $i \in I$ the inear vector equation $i \in I$ and inear vector equation $i \in I$ and in the inear vector equation $i \in I$ and it is supposed by satisfied; we seek, therefore, the most reason-

able set of values α_i to approximate the α_i . Write $\eta = \gamma + \Delta_i$, $\eta = \sum_{j=0}^n \alpha_{i,j}^n \beta_j$ and $i = \eta - \eta^n$. It is clear that η^n belongs to the linear subspace L spanned by the x_i . Denoting scalar products by $\{i\}$, we see that the condition $\{i\}$ minimum is equivalent to the condition that η^n is the orthogonal projection of η on L_i whence $[i\}_j = 0$ follows. A further immediate consequence is that $\sum_{i=1}^n [\{i\}_i] \alpha_i = [\{i\}_i]$, $i=1,\dots,n$. These are the normal equations for the α_i and have a solution since determinant $\{i\}_i = 0$.

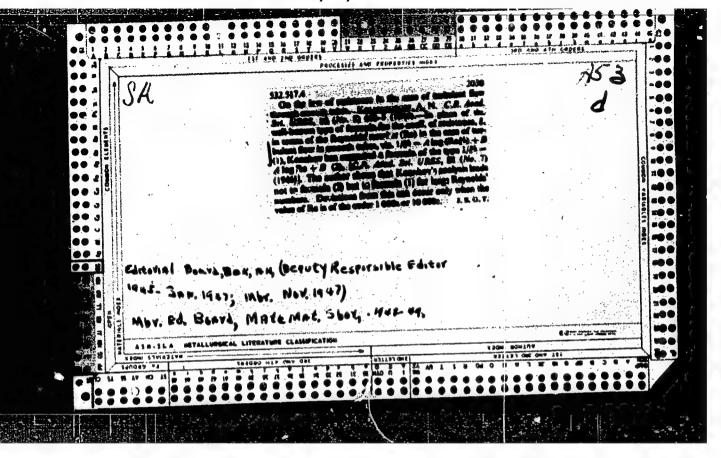
Next, define a set of vectors $u_i L$ by $[u_i \xi_j] = \delta_{ij}$ (Kronecker symbols) and write $[u_i u_i] = q_{ij}$. Then $\alpha_i = a_j + [\Delta u_i]$. If we suppose that the components Δ_i of Δ are random variables of i_i and with i_i the appropriate mean value operator i_i , we find that $M_{\alpha_i} = a_i$ and $M(\alpha_i - \alpha_i)(\alpha_j - a_j) = q_{ij} s^i$. Similarly, one derives $M_i = a_i$ and $M_{\{\alpha_i\}} = (N - n_i) s^i$.

The χ^2 distribution and Student's distribution are derived and there are trial discussions of confidence limits and of the significance of the dispersion matrix q_{ij} .

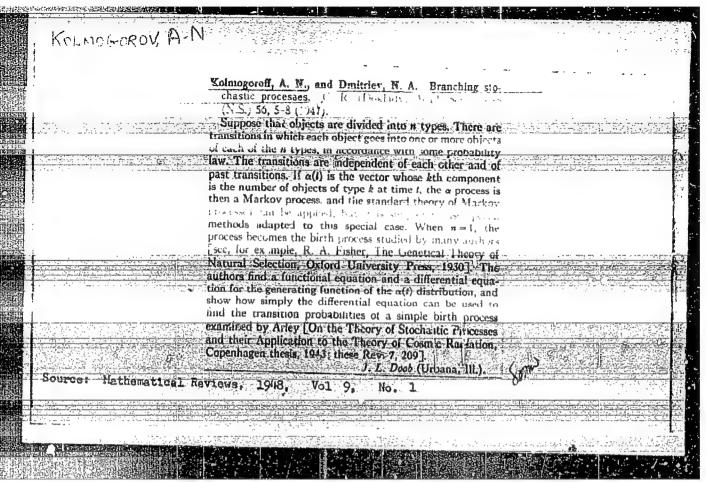
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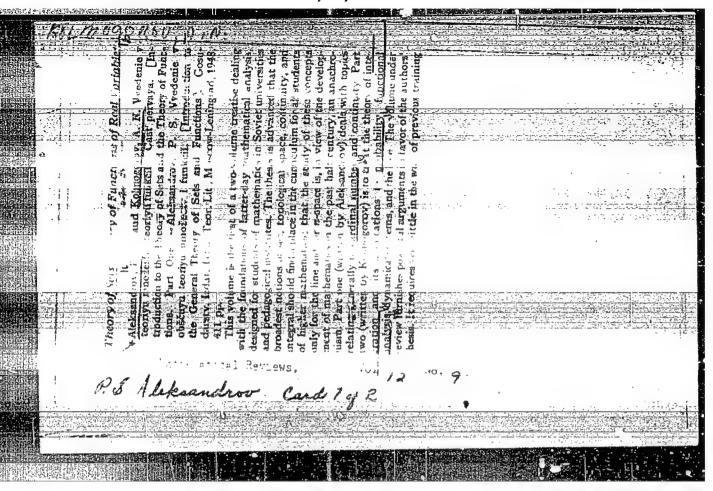
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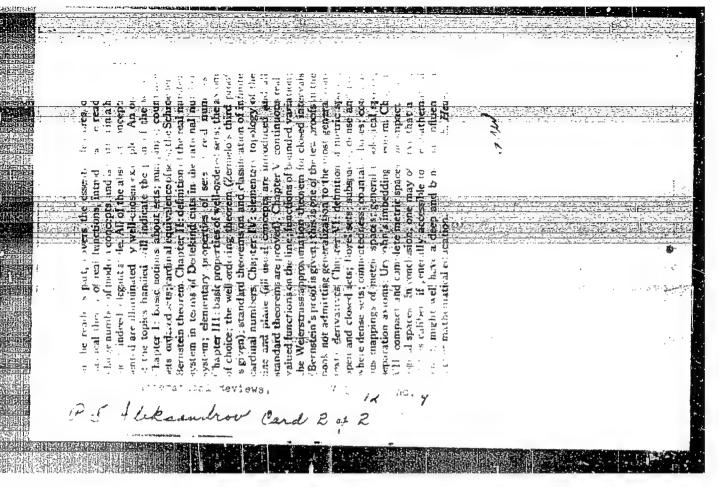


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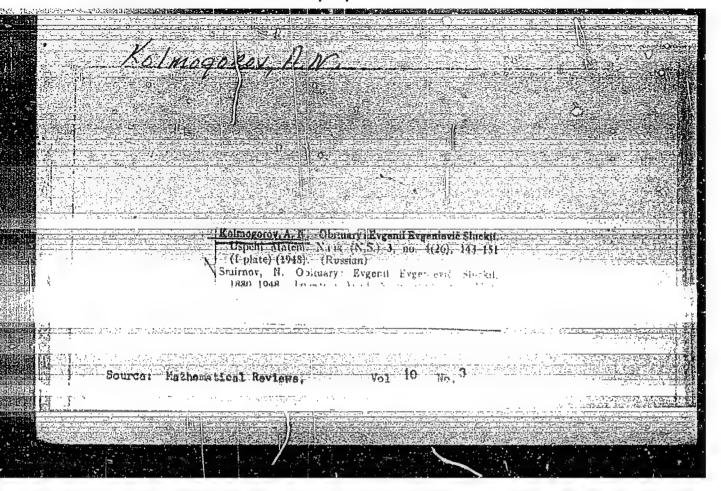
0 Acounogorov, A. N., and Savostyanov, B. A. The calcuexactement, [c] if ne contient aucum sous-groupe ayant i a per prof final probabilities for branching random proprocesses and an experience of un groupe final les trans-Akad. Nauk SSR (N.S.) 56, 783-780 formations constituent un cas particulièrement simple des chaines de Markoff. Soit $\psi_i(u_i, \dots, u_s) = \sum_{i=1}^n u_i^{\theta_i} \dots u_s^{\theta_s}$ la fonction génératrice des $g_i^{\theta_i} = P(T_i - \theta_i \Psi_1 + \dots + \beta_s \Psi_s | \omega)$ soit $P_{k''}(t) = P(T_k \rightarrow \alpha_1 T_1 + \cdots + \alpha_n T_n | t)$ la probabilité qu'une particule du type T, donne, après A générations, en décomposant la système total en groupes finals at particules du type Ti. ... , a particules du type Ti. Yes [Tor, ..., Trans. rest, ..., s, et en types Turner Tor La fonction génératrice $F_*(t; z) = \sum_n P_*(t) x_1^{a_1} \cdots x_n^{a_n}$ n'appartenant pas à des groupes finals: si on écrit Tra au $P_i(1:x) = f_i(x)$, est donnée par lieu de Ta, on écrira em au lieu de en et fm eu lieu de fa. $F_n(t+1,x)=f_n\{F_1(t;x),\dots,F_n(t;x)\}.$ Théorème Les relations r troduisant sid le faut un type fictif dont $\varphi_{0n} = f_{0n}(\varphi_1, \dots, \varphi_n),$ les particules demeurent invariables, que $f_{\bullet}(0, \dots, 0) = 0$. · Tia est dit fermé si les particules qui pu 0≤4, <1. + -1. n, : + = 1, provent produire que des parricules du s. oupe, ou suppeau le système total indécomposable déterminent univequement les valeurs des et pour les t. donnés. On montre est an exemple, etudié en detail, comes fermés. L'n groupe est dit final si (a) il est ment le cas de l'eontin : prof a ramener au cas discret. hi chaque de ses particules produir une particule V John New York, N. Y.). coffical Reviews. 1948, Vol 9, No. 3

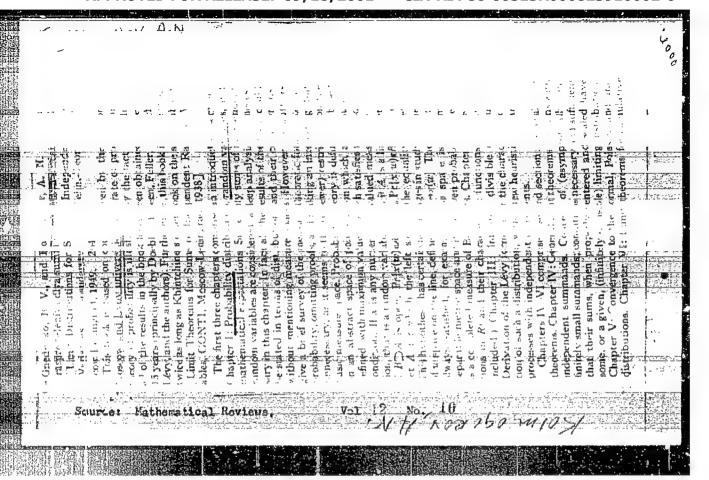


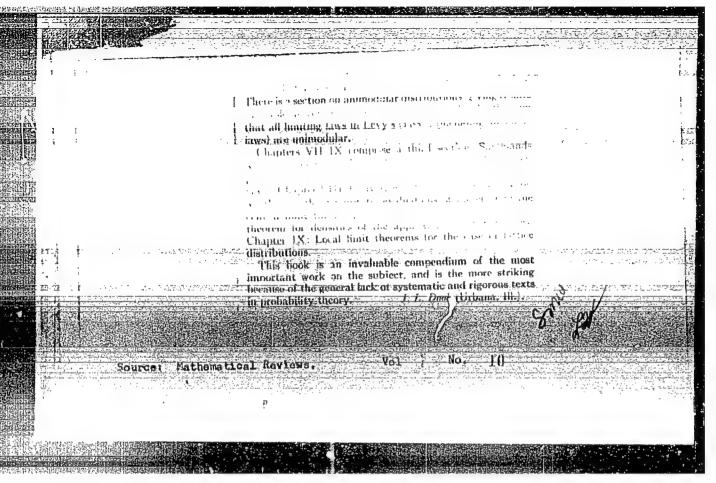


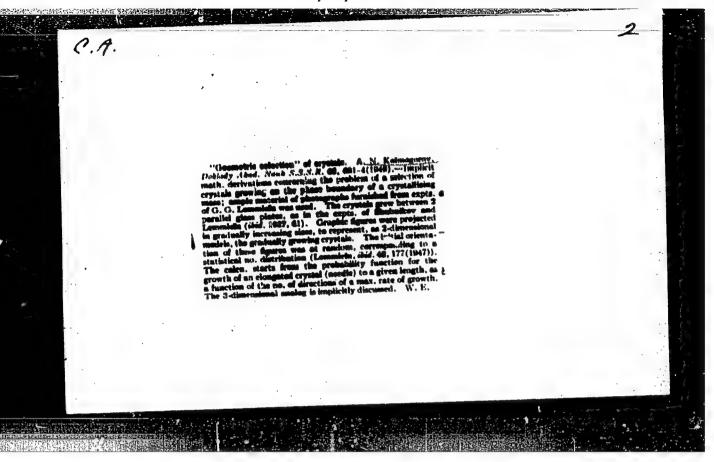
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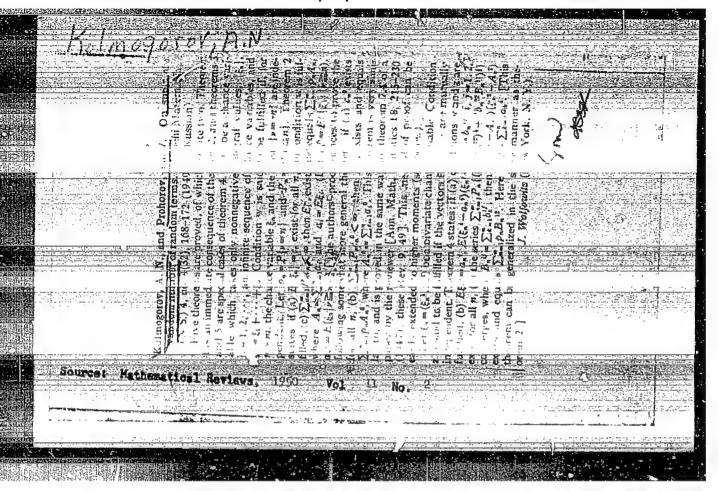






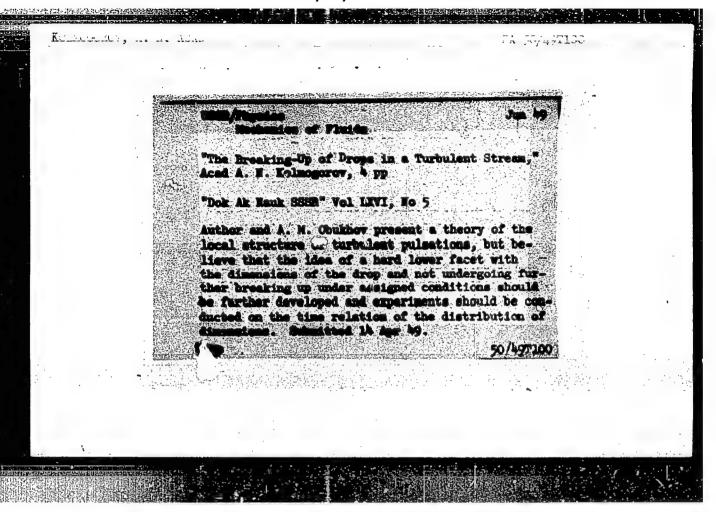


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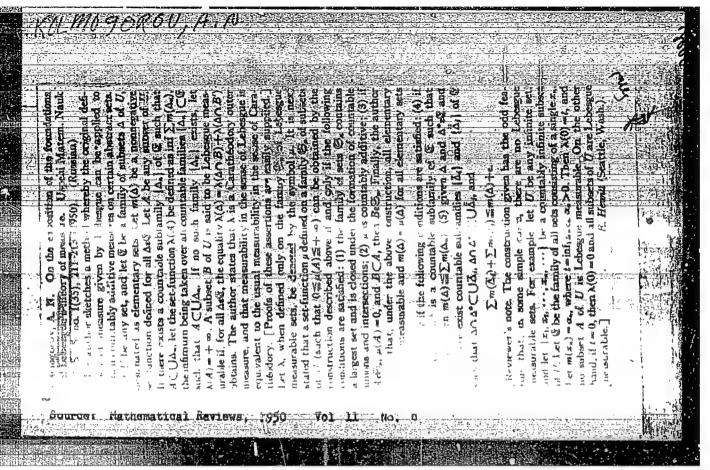
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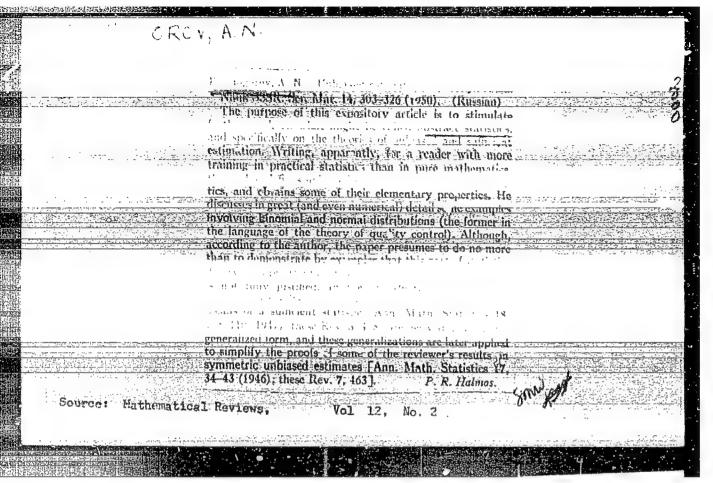
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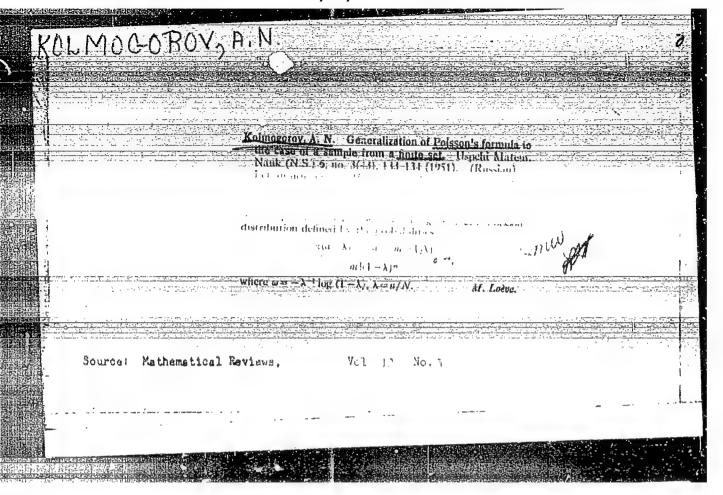
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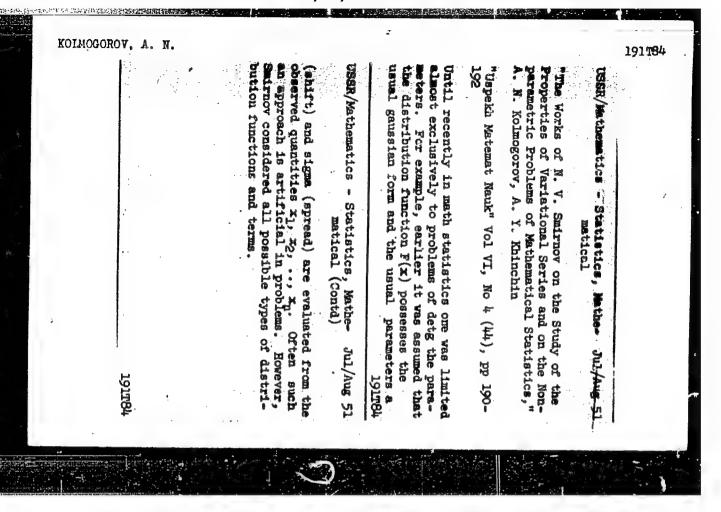
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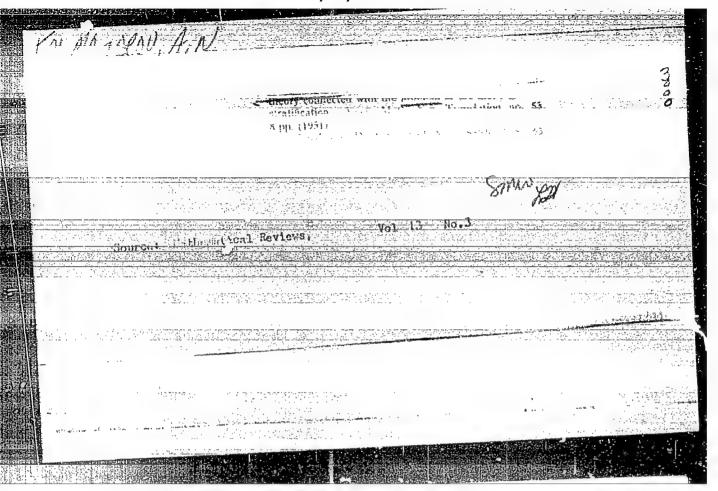
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"Uspekh Matemat Nauk" Vol VI, No 3 (43), pp 175-181

Subject book published 1950 by State Tech Press for 9.45 rubles; 15,000 copies. Authorized by the Ministry of Higher Educ of USSR as textbook for higher institutions of learning. Review is favorable. Reviewer states that scientific literature on the theory of probability in the USSR is not very abundant.

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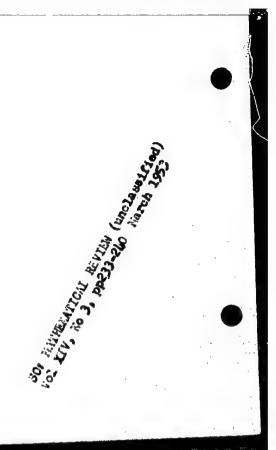




KOLMOGOROU A.N .

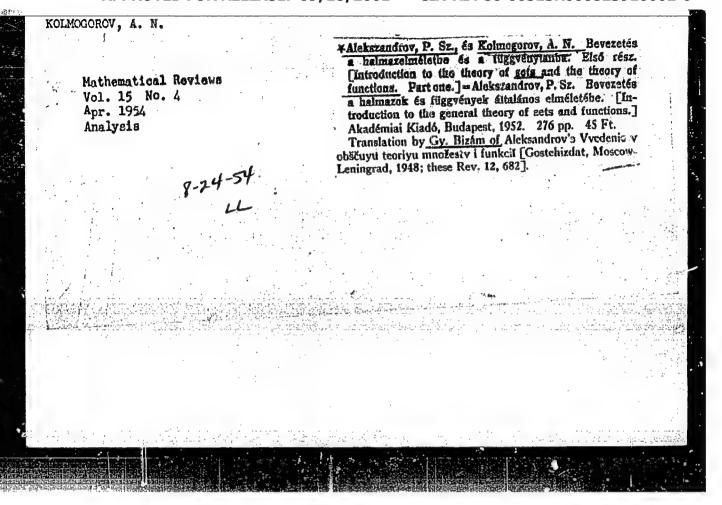
Kolmogorov, A. N. On the differentiability of the transition probabilities in stationary Markov processes with a denumberable number of states. Moskov. Gos. Univ. Učenye Zapiski 148, Matematika 4, 53-59 (1951). (Russian)

The author considers Markov chains with infinitely many states and stationary transition probabilities. Let $[p_{ij}(t)]$ be the matrix of transition probabilities for time t. It is the the matrix of transition probabilities for time t. It is assumed that $\lim_{t\to 0} p_{ii}(t) = 1$. The reviewer has shown [Trans. Amer. Math. Soc. 52, 37-64 (1942); these Rev. 4, 17] that then $p_{ij}'(0) = a_{ij}$ exists for $j \neq i$, and for $j \neq i$ if $a_{ij} > -\infty$. The author gives new proofs of these facts, proving also that a_{ij} exists and is finite in all cases. He gives simple examples of pathological cases in which, for a single value of i, $a_{ij} = -\infty$, and in which every a_{ij} is finite but, for a single value of i, $\sum_{i} a_{ij} = 0$. In the latter example, the backward differential equations for the transition probabilities are no longer valid. See also the pathological examples giver by Lévy [Ann. Sci. Ecole Norm. Sup. (3) 68, 327-381 (1951); these Rev. 13, 959].



"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823910002-6



DELONE, B. N.; KUROSH, A. G.; KOLMOGOROV, A. N.; MARKOV, A. A.; GELFOND, A. O.; MEYMAN, N. N.; VILENKIN, N. Ya.

Algebra

Development of algebra. Usp.nat.nauk 7 No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1957, Uncl.

MULMUULILV, A. I.

1A 242778

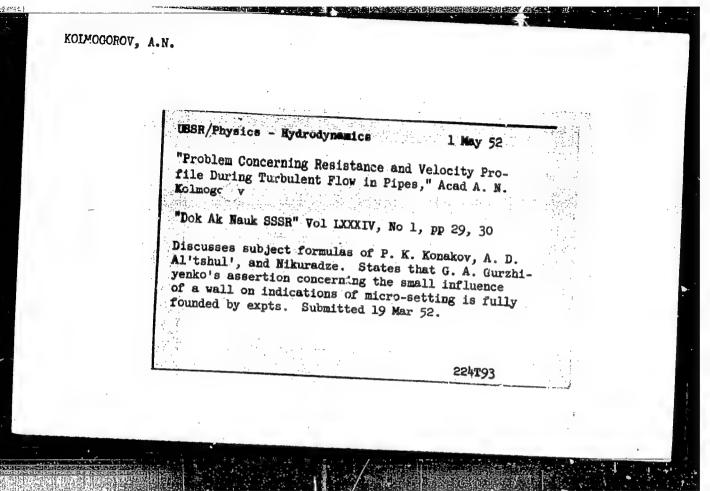
USSR/Mathematics - Prize Winners

Sep/Oct 52

"Mathematical Life in the USSR: Works Winning a Stalin Prize," A. N. Kolmogorov

"Usp Matemat Nauk" Vol 7, No 5(51), pp 234-7

Dr of Phys-Math Sci S. N. Mergelyan awarded prize in 1951 for works on constructive theory of functions, main results of which were expounded in his article "Uniform Approximations of Functions of a Complex Variable" (ibid., 7, No 2 (1952)). S. M. Nikol'skiy's prize-winning works during 1949-1951 represent the culmination of 10 years' work in his single program of approximations of functions following the investigations of S. N. Bernshteyn.



KOLF CGGROV, A. N.			
). ·
	Kolmogoroff, A. A. Stationary see	uences in Hilbert	
Mathematical Reviews May 1954 Analysis	(Spanish)	-73, 243-270 (1953). 2.	
Mathematical Reviews May 1954 Analysis	(Spanish)	-73, 243-270 (1953). 2.	
May 1954	(Spanish)	-73, 243-270 (1953). 2.	
May 1954 Analysis	(Spanish)	-73, 243-270 (1953). 2.	
May 1954 Analysis	(Spanish)	-73, 243-270 (1953). 2.	
May 1954	(Spanish)	-73, 243-270 (1953). 2.	
Analysis	(Spanish)	-73, 243-270 (1953). 2.	

FILMAN, B.A.; KOLMOGOROV, A.N., akademik.

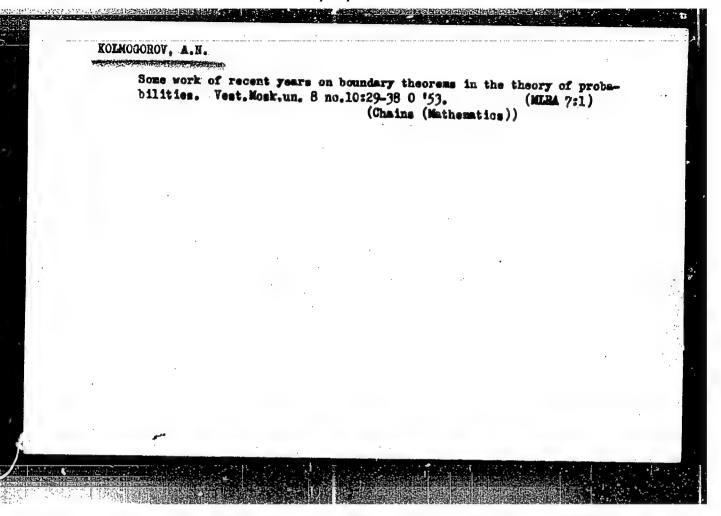
Velocity of a water current at a sudden increase of depth. Isv.AN SSSR Otd.tekh.nauk no.4:512-522 Ap 153. (MLRA 6:8) (Hydrodynamics)

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		of Recent Years in the Field of Probability Theory, "'A.N.	Vest Mos Univ, Ser Fizikomat i Yest Mauk, No pp 19-38			Na SSSR, 83, 1952); D.G. Meyzler, and Ye. L. Ryacheva (Dan SSSR, Mat Zhur, 9-20, 1949); Ye.L. Ryacheva ti Mekh An Uzbek SSR, No 10, part l, Linnik and N.A. Sapogov (Izv AN 1); S. Kh. Strathdinov (Den SSR,	,	
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KOLMOGOROV, A. N. Acad.

"Certain Questions of the Qualitative Theory of Dynamic Systems with an Integral Invariant," report given at the All-University Scientific Conference "Lomonosov Lectures", Vest. Mosk. Un., No.8, 1953

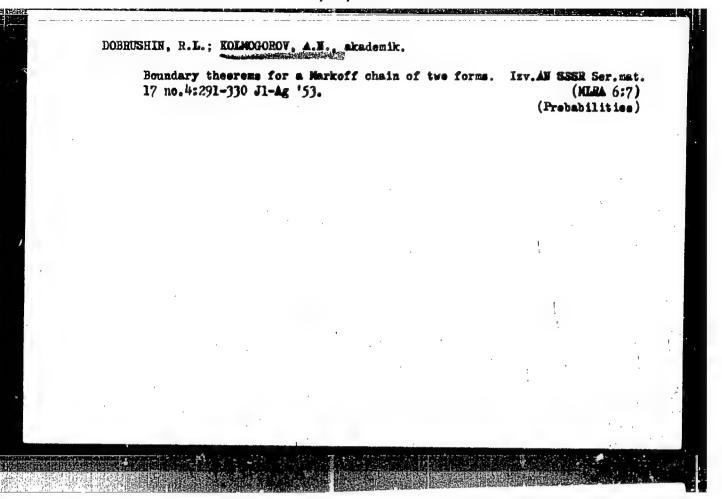
Translation U-7895, 1 Mar 56



GEL'FAND, I.M.; GHAEV, M.I.; KOLMOGOROV, A.H., akademik.

Unitary representations of a real unimodular group (principal non-degenerate series). Izv.AN SSSR 17 no.3:189-248 My-Je '53. (MLRA 6:5)

1. Akademiya Neuk SSSR (for Kolmogorov).



PUGACHEV, V.S.; KOLMOGOROV, A.M., akaderiik.

General correlation theory of random functions. Izv.AN SSSR Ser.mat. 17 no.5: (MIRA 6:10) 401-420 B-0 153.

1. Akademiya nauk SSSR (for Kolmogorov).

(Correlation (Statistics))

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823910002-6

KOLHOGOROV, A. N.

USSR/Mathematics - Markov Chains

1 May 53

"Ergodic Principle for Nonhomogeneous Markov Chains," T.A. Sarymsakov, Active Member, Acad Sci Uzbek SSR, Central Asiatic State U

DAN SSSR, Vol 90, No 1, pp 25-28

Considers a simple nonhomogeneous and discrete Markov chain with uniquely possible and disjoint states w_1, w_2, \ldots, w_s , which is completely detd by the assignment of a sequence of stochastic matrices (V.I. Romanovskiy, Acta Math. 66, 174 (1935); A.Y. Kolmogorov, Usp Mat Nauk, No 5 (1938); S.N. Bernshteyn, Teoriya Veroyatnostey, Theory of Probabilities, 4th ed, 1948). $A_k = \frac{1}{p_i j}(k) \frac{1}{s} (k=1,2,\ldots; i,j=1,2,\ldots; s)$, where $p_{ij}(k)$ is the conditional probability that state w_i remaining at moment t_k will pass over to state w_j at moment t_{k+1} (i.e., in one step). Presented 22 Dec 52.

259170

ARESHKIN, G.Ya.; KOLMOGOROY, A.W., akademik.

Congruence relations in distributive structures with zero elements. Dokl.

AN SSSR 90 no.4:485-486 Je '53.

1. Akademiya Hauk SSSR (for Kolmogorov). (Congruences (Geometry))

· 中国

MINELAURE, Sh. Ye.: KOLMOGOROV, A.M., akademik.

Theory of the construction of interpolation formulas. Dokl.AN SSSR 90 no. 4:503-506 Je '53. (MLRA 6:5)

1. Akademiya Wauk SSSR (for Kolmogorov). 2. Tbilisskiy matematicheskiy institut Akademii nauk Grusinskoy SSR (for Mikeladze). (Interpolation)

BARI, N.K.; KOLMOGOROV, A.W., akadomik.

Generalization of inequalities of S.W. Bernshtein and A.A. Markev. Dakl.
AN SSSR 90 me.5:701-702 Je '53. (MERA 6:5)

1. Akademiya Nauk SSSR (for Kelmegerev). (Inequalities (Nathematics))

YAGIOM, A.M.; PINSEER, M.S.; KOLMOGOROV, A.N., akademik.

Random processes with fixed increments of the n-th order. Dokl.AM SSSR 90 no.5:731-734 Je '53.

1. Akademiya Mauk SSSR (for Kolmogorov). (Probabilities)

Spectral theory of matrixes in an analytical space. Dokl. AN SESR 90 no.6:969-972 Je '53. (MLRA 6:6)

- 1. Rostovskiy gosudarstvennyy universitet im. V.M. Molotova (for Ehaplanov).
- 2. Akademiya nauk SSSR (for Kolmogorov).
 (Matrixes) (Spaces, Generalized)

KRASNOSEL'SKIY, M.A.; POLOVITSKIY, A.I.; KOLMOGOROV, A.N., akademik.

Variational methods in the problem for points of bifurcation. Dokl. AM
SSSR 91 no.1:19-22 J1 '55. (MLRA 6:6)

1. Akademiya nauk SSSR (for Eolmogorov).
(Spaces, Generalized) (Calculus of variations)

SOBOLEV, V.I.; KOLMOGOROV, A.N., akademik.

Semiordered measures of sets, measurable functions, and certain abstract integrals. Dokl. AN SSSR 91 no.1:23-26 Jl 153. (MLRA 6:6)

1. Voronezhskiy gosudarstvennyy universitet. 2. Akademiya nauk SSSR (for Kolmogorov). (Integrals) (Aggregates)

DYNKIN, Ye.B.; KOLMOGOROV, A.M., akademik.

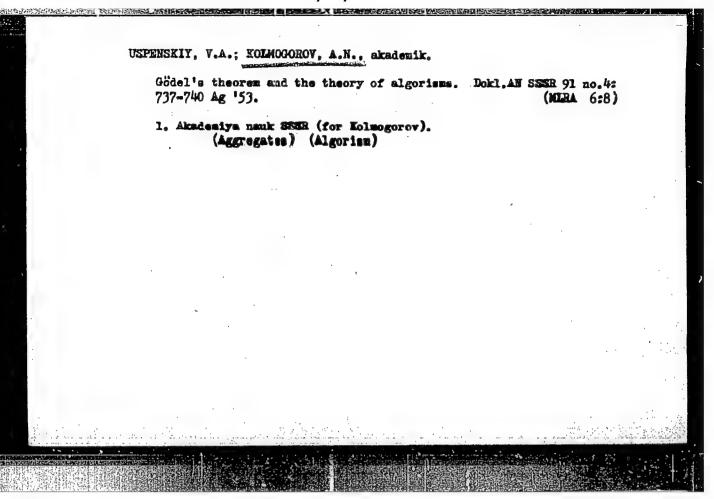
Construction of primitive cycles in compact Lie groups. Dokl.AM SSSR 91 no.2:201-204 J1 '55. (MLRA 6:6)

1. Akademiya nauk SSSR (for Kolmogorov). (Topology) (Groups, Theory of)

KOLMOGOROV, A.N., akademik; MOKRISHCHEV, K.K.

Solvability of construction problems of the second order in the Lobachevski plane, with the aid of a hypercompass or compass and oricompass. Dokl.AN SSSR 91 no.3:453-456 Jl 153. (MLRA 6:7)

1. Rostovskiy gosudarstvetnyy universitet imeni V.M. Molotova (for Mokrishchev). 2. Akademiya nauk SSSR (for Kolmogorov). (Geometry, Plane)



VINOGRAD, R.E.; KOLMOGOROV, A.W., akademik.

Instability of characteristic indexes of proper systems. Dokl.An SSSR 91 no.5:999-1002 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). (Matrixes)

DYNKIN, E.E.; KOLMOOOROV, A.N., akademik.

Homological characteristics of homomorphisms in compact Lie groups. Dokl.
AN SSSR 91 no.5:1007-1009 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). (Groups, Continuous)

RODNYANSKIY, A.M.; KOLMOGOROV, A.M., akademik.

Integral representations of the degree of mapping. Dokl.AN SSSR 91 no.5: 1019-1021 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogerov). 2. Moskovskiy khimiko-tekhnologicheskiy institut myasnoy promyshlennosti. (Surfaces, Representation of)

KHARAZOV, F.F.; KOLMOGOROV, A.N., akademik.

One class of linear equations with symmetrizable operators. Dokl.AN SSSR 91 no.5:1023-1026 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). 2. Toilisskiy matematicheskiy institut im. A.Razmadze Akademii nauk Grus. SSR.

(Differential equations)

AL'BER, S.I.; KOLMOGOROV, A.W., akademik.

Hemelogs of a space of surfaces and their application to variational calculus. Dokl.AN SSSR 91 no.6:1237-1240 Ag *53. (NLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). 2. Tomskiy gesudarstvennyy universitet im. V.V.Kuybysheva. (Topelogy) (Calculus of variations)

BEREZANSKIY, Yu.M.; KOLMOGOROV, A.M., akademik.

Hypercomplex systems constructed on Sturm-Liouville equation on the semiaxis. Dokl. All SSSR 91 no.6:1245-1248 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogerov). 2. Institut matematiki Akademii nauk Ukrainskoy SSR. (Topelegy) (Differential equations)

BERMAN, D.L.; KOLMOGOROV, A.N., akademik.

Approximation of periodic functions by linear, trigonometric polynomial operations. Dokl.AN SSSR 91 no.6:1249-1252 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). (Functions, Periodic) (Polynomials)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823910002-6

GANZBURG, I.M.; KCIMOGOROV, A.N., akademik.

Approximation of functions with a given module of continuity, by P.L.Chebyshev's sums. Dokl. AN SSSR 91 no.6:1253-1256 Ag '53. (NLR 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). 2. Dnepropetrovskiy gosudarstvennyy universitet.

SMIRNOV, Yu.; KOLMOGOROV, A.N., akademik.

Completeness of uniform spaces and spaces of proximity. Dokl.AN SSSR 91 no.6:1281-1284 ag '53.

1. Akademiya nauk SSSR (for Kolmogorov). (Topology) (Spaces, Generalized)

KHARAZOV, D.F.; KOLMOGOROV, A.N., akademik.

Theory of symmetrizable operators, depending polynomially on the parameter. Dokl.AN SSSR 91 no.6:1285-1287 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Kolmogorov). 2. Tbilisskiy matematicheskiy institut im. A. Razmadze Akademii nauk Gruzinskoy SSR.

(Functional analysis)

SHILOV, G.Ye.; KOLMOGOROV, A.N., akademik.

Criterion of compactness in a uniform space of functions. Dokl.AH SSSR 92 no.1:11-12 \$ \$53. (MLRA 6:8)

1. Akademiya nank SSSR (for Kolmogorov).

(Spaces, Generalized)

RHAVIESON, S.Ya.; KOLMOGOBOV, A.H., akademik.

Gertain non-linear extremal problems for bounded analytic functions. Dokl. AB
SSSR 92 no.2:243-245 S '53.

1. Akademiya namik SSSR (for Kolmogorov). 2. Teletakiy gosudarstvennyy uchitelskiy institut (for Enavinson).

(Functions, Analytic)

FRANKL', F.I.; KOLMOGOROV, A.S., akademik.

Theory of movement in suspended depositions. Dokl.AN SSSR 92 no.2:247-250 S 153. (NLDA 6:9)

1. Akademiya nauk SSSR (for Kolmogorov). 2. Kirgisekiy gosudarasvenayy universitet (for Franki'). (Fluid mechanics)

(Sedimentation and deposition)

MIKELALES, Sh. Ye.; KOLMOGOROV, A.M., akademik.

Expansion of finite differences from functions in differences of its derivative. Dokl.AN SSSR 92 no.3:479-482 S '53.

1. Akademiya nauk SSSR (for Kolmogorov). 2. Matematicheskiy institut akademii nauk Gruzinskoy SSR (for Mikeladze).

(Difference equations)

ORLOV, S.A.: KOLMOGOROV, A.N., akademik.

Defect index for linear differential operators. Dokl.AN SSSR 92 no.3:483-(MLHA 6:9)
486 S '53.

1. Akademiya nauk SSSR (for Kolmogorov).
(Operators (Mathematics)) (Differential equations, Linear)

FADDEYEV, D.K.; KOLMOGOROV, A.N., akademik.

One theory of the theory of homologies in groups. Dokl.AN SSSR 92 no.4:703-705 0 153.

1. Akademiya nauk SSSR (for Kolmogorov). 2. Leningradskiy gosudarstvennyy universitet im. A.A. Endanova (for Kolmogorov). (Groups, Theory of)

BEREZANSKIY, Yu.M.; KOLMOGOROV, A.M., alcademik.

Proper function analysis of partial difference equations. Dokl.AN SSSR 93 (MERA 6:10)

1. Akademiya nauk SSSR (for Kolmogorov). 2. Institut matematiki Akademii nauk Ukrainskoy SER (for Beresanskiy). (Difference equations)

MONIN, A.S.; OBURHOV, A.M.; KOLMOGOROV, A.N., akademik.

Dimensionless characteristics of turbulence in the surface layer of the atmosphere. Dokl.AN SSSR 93 no.2:257-260 N *53. (MLRA 6:10)

1. Akademiya namk SESE (for Kolmogorov). 2. Geofizicheskiy institut Akademii namk SESE (for Monin and Obukhov). (Atmosphere)

BEREKANSKIY, Yu.M.; KOLMOGOROV, A.N., akademik.

Unique determination of the Schrödinger equation by its spectral function.

(MIRA 6:11)

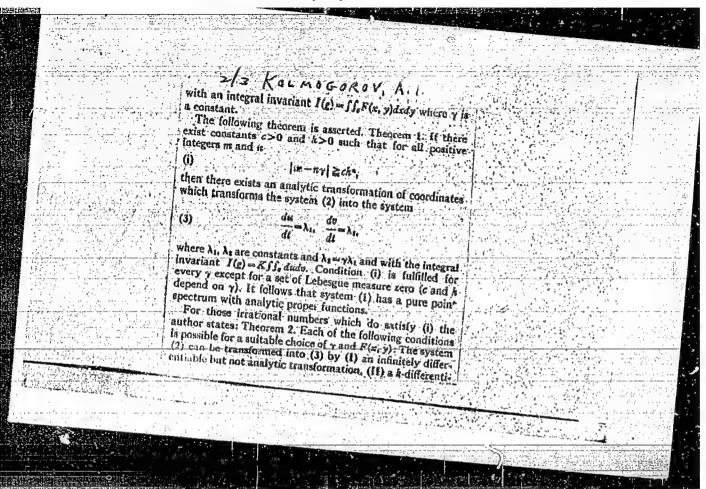
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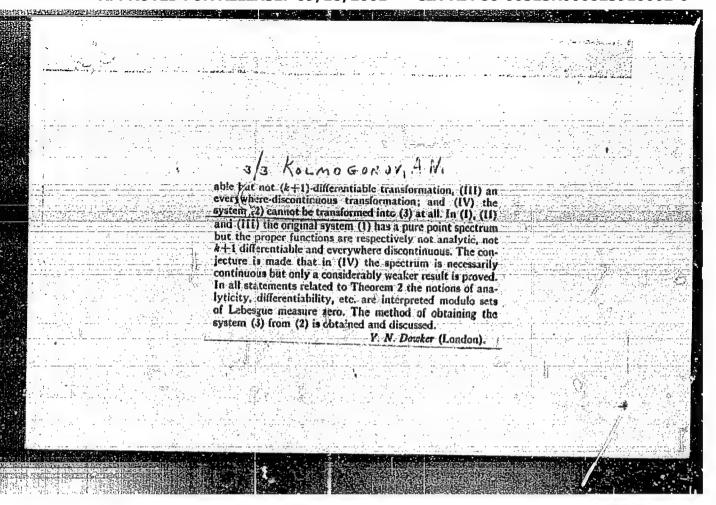
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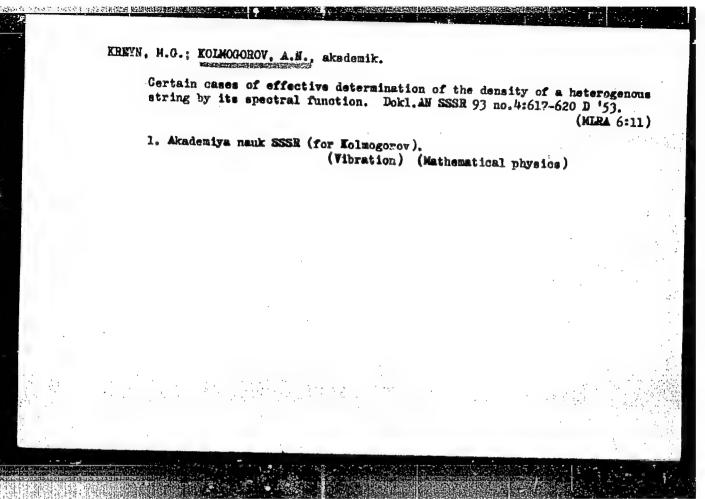
nauk Ukrainskoy SSR (for Berezanskiy).

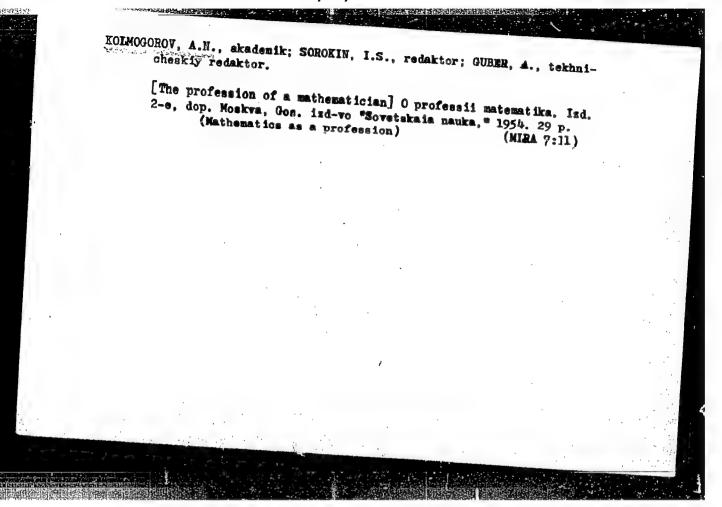
(Geometry, Differential--Projective)

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U.S. Il a Kolmogorov, A. N. On dynamical systems with an integral
invariant on the torus. Doklady Akad. Nauk SSSR
(N.S.) 93, 763-766 (1953), (Russian)
The author considers a dynamical system defined on
a 2-dimensional torus T* by the system of differential
equations
$\frac{d\mathbf{r}}{dt} = A(\mathbf{r}, \mathbf{s}) = B(\mathbf{r}, \mathbf{s})$
(1) $\frac{dx}{dt} = A(x, y), \frac{dy}{dt} = B(x, y),$
🔐 그는 사람들은 그는 그들이 그는 그를 하는 장마를 하면 한 경우를 하는 사람들이 되었다. 그는 사람들은 그는 사람들은 그는 그는 그는 사람들은 그는 그를 하는 것이다. 그는 그를 하는 것이다.
and possessing an invariant integral $I(g) = \int \int_{\mathcal{C}} U(x, y) dx dy$,
where A, B and U are univalued, analytic periodic functions
of x and y with period 2x. Here x and y are real coordinates
$\mod 2\pi$, $A^2+B^2>0$, $U>0$ on the whole of T^2 . It is then
known [Nemyckit and Stepanov, Qualitative theory of
differential equations, 2nd, ed., Gostchizdat, Moscow-
Leningrad, 1949; for a review of the 1st ed. see these lev.
10, 612] that there exists an analytic transformation of
coordinates which transforms the system (1) into the system
$\frac{dx}{dt} = \frac{1}{F(x, y)} + \frac{dy}{dt} = \frac{\gamma}{E(x, y)}$
$m{x}$ and the expression of $m{x}$. The pair $\{\hat{x}_i, x_j\}$ is $m{x}_i$. $m{x}_i$ ($m{x}_i, x_j$) in the second of $m{x}_i$ is the second of $m{x}_i$ in the second of $m{x}_i$ is the second of $m{x}_i$ in the second of $m{x}_i$ is the second of $m{x}_i$ in the second of $m{x}_i$ in the second of $m{x}_i$ is the second of $m{x}_i$ in the second of $m{x}_i$ in the second of $m{x}_i$ is the second of $m{x}_i$ in the second of $m{x}_i$ in the second of $m{x}_i$ is the second of $m{x}_i$ in the second of $m{$
그렇게 하고 하다면서는 모든 이 교육을 되게 보십시간 말이 되었다. 이 이 그는 모든 소리를 가고게 하다라며 되는데 하다
를 받았다. 이 <u>그는 사</u> 이는 사람들이 있는 사람들이 되어 있습니다. 사람들이 아무지 아무지 아무지 않는 사람들이 가지 않는다.
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KOI.MOGOROV, A.N.

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TREASURE ISLAND BOOK REVIEW

KOLMOGOROV, A. N., FOMIN, S. V. AID 777 - M ELEMENTY TEORII FUNKTSIY I FUNKTSIONALNOGO ANALIZA. Vypusk I METRICHESKIYE I NORMIROVANNYYE PROSTRANSTVA (Elements of the theory of functions and functional analysis. Issue I: Metrical and normed spaces). Izdatel stvo Moskovskogo Universiteta, 1954.

This textbook was written by A. N. Kolmogoroff, one of the outstanding Russian Scientist mathematicians, assisted by Professor S. V. Fomin, for students of graduate schools in the mathematical faculty of Russian universities.

The first chapter of this text is devoted to a brief exposition of some basic ideas of the theory of sets in which modern functional analysis is needed. A more extensive text on this subject of the introduction to the general theory of sets and functions has been written by another outstanding Russian mathematician, P. S. Alexandroff. This text is recommended by Kolmogoroff as an additional text to his first chapter (p. 5). For more extensive study of the whole field of the theory of sets, the fundamental book on this subject, the Grundzuge der Mengenlehre, written by F. Hausdorff,

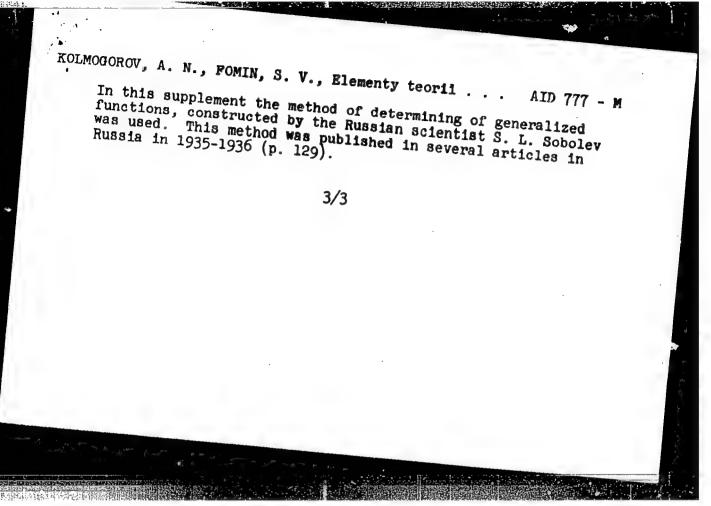
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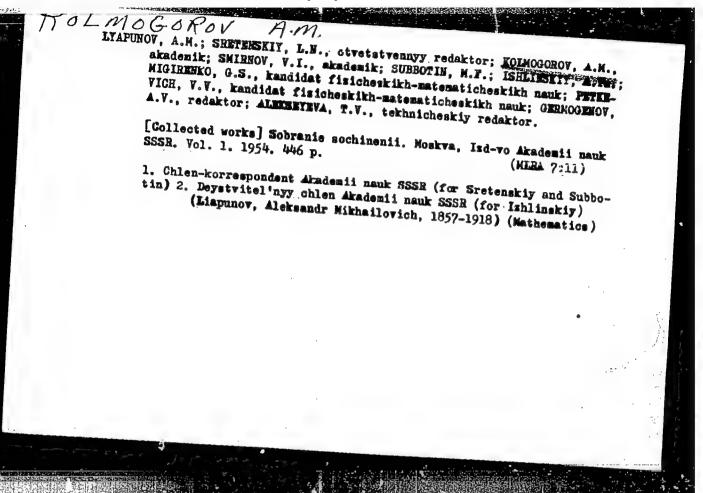
was translated from the German into Russian in 1936. [The first German edition of this book was reprinted in the U.S.A. in 19491.

The second, third and fourth Chapters on metrical spaces, linear normed spaces, and linear operational equations respectively, are written on the basis of the modern theory of functional analysis, in whose creation Kolmogoroff took part by writing many articles. The most famous of his articles include:

- Über die analytischen Methoden der Wahrscheinlichkeiterechnung. Math. Annalen, 104 (1931) 415-458.
- II. Sulla forma generale di un processo stocustico omogneo. (Un problema di Bruno de Finetti). Atti Accad. naz. Lincei, Rend., (6) 15 (1932) 805-808, 866-869.
- III. Zur Normierbarkeit eines algemeinen topologischen linearen Raumes. Studia Math., 5 (1934) 29-33.

A very important supplement called "Generalized functions" was added to the third chapter - Linear normed spaces - .





"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910002-6 KULMOGOROVE Kolmosoroff, Andrej: und Procheese Fundtionen und Grenzvorteilungssätze. Rericht die die Tagung Wahrscheinlichk An amalgam of two expository fectures. Of particular interest is the treatment of the which goes from the most abstract definition to applied cations to specific probability limit the Doob contains further remarks on some of the topics of the translator has also corrected minor misprints following error: The translator has also corrected minor misprints following error: The follo

CLMOSOROV, A.N. USSR/Physics - Suspension Pumps

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: Pub 129-4/24

Author

: Kolmogorov - A. N.

Title

: M. A. Velikanov's new variant of his gravitational theory of motion

of suspension pumps

Periodical

: Vest. Mosk. un., Ser. Fizikomat, i yest. nauk, Vol 9, No 2, 41-45

Mar 1954

Abstract

The author claims that the new variant (M. A. Velikanov, "Motion of suspension pumps," Vest. Mosk. un., No. 8, 1953) of Velikanov's" gravitational theory" of the transfer of suspended particles by a turbulent current, first proposed by Velikanov in 1944, leads to conclusions so paradoxical and so roughly inconsistent with daily experience that the theory's defective basis has become particularly evident. Velikanov's fundamental idea of the role of the "energy of suspension", which is essentially correct, is here analyzed for any errors and also for the possibility of its more correct development. The author refers to a related work of G. I. Barenblatt (Motion of

Buspended particles in a turbulent current," Prikl. mat. i mekh.,

17, No. 3, 261-272, 1953).

(no institution)

Submitted: December 16, 1953

	atics - Mechanics Pub. 22 - 4/49
uthors 1tle	* Kolmogorov, A. N., Academician
	* On conservation of conditionally periodic movements at a small change of Hamilton's function
eriodical	1 Dok. AN SSSR 98/4, 527-530, Oct. 1, 1954
etract	A theorem, quite important for mechanics, is proved. The theorem states that a s-parametric system of conditionally periodic movements, such as qo = Ao t + qo; po = 0, under certain conditions outlined in the theorem, can not vanish as a result of small changes of Hamilton's function governing the movements. Three references (1936-1943)
etract	states that a s-parametric system of conditionally periodic movements, such as qo = Ao t + qo; po = 0, under certain conditions outlined in the theorem, can not vanish as a result of small changes of Hamilton's function governing the movements. Three references (1936-1953).
	states that a s-parametric system of conditionally periodic movements, such as qo = Ao t + qo; po = 0, under certain conditions outlined in the theorem, can not vanish as a result of small changes of Hamilton's function governing the movements. Three references (1936-1953).

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